

<https://groups.yahoo.com/neo/groups/SJTU-SV/conversations/messages/11507>

Sent: Sunday, April 2, 2017 1:10 AM

To: SJTU-SV@yahoogroups.com

Subject: [SJTU-SV] RE: RE: Michael I. Jordan on Deep Learning

It has been well known for long that there are fundamental problems in logic systems.

Computers, even with deep learning, do not have the same commonsense as humans.

So computers do not have the potential to well understand the problems like sophisms, and also could cause problems in driverless cars.

To well understand commonsense and human intelligence, people need think out of the traps of Turing Machine, to start with the problems like White Horses Are Not Horses (白马非马):

<https://www.linkedin.com/pulse/%E4%BB%8E%E7%99%BD%E9%A9%AC%E9%9D%9E%E9%A9%AC%E7%9C%8B%E6%95%B0%E6%8D%AE%E6%96%B9%E6%B3%95%E7%9A%84%E7%BC%BA%E9%99%B7-scott-lifan-gu>

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Michael I. Jordan, Pehong Chen Distinguished Professor, UC, Berkeley, expressed some concerns for deep learning (<http://fastml.com/michael-jordan-on-deep-learning/>) :

"With all due respect to neuroscience, one of the major scientific areas for the next several hundred years, I don't think that we're at the point where we understand very much at all about how thought arises in networks of neurons, and I still don't see neuroscience as a major generator for ideas on how to build inference and decision-making systems in detail".

Any concrete reasonings to further illustrate ?

In my opinions, deep learning is not same as human intelligence, because it does not illustrate the principles behind the development of natural languages, philosophies, mathematics axioms, and sciences, etc.

However, seems there is no serious research going on regarding this critical issue, and no resource to support such researches.